

Vehicle separator to infrared rays –Model SP 03

General description



- ◆ The optical barrier is used in the motorway toll lanes to survey the vehicle cadence and to detect the vehicle height above the first axle. These parameters are used to determine the tariff.
- ◆ It consists of two parts (transmitter and receiver), positioned on the sides of a single lane. These parts generate and receive an infrared and orthogonal light in the direction of the vehicle.
- ◆ The two equal elements consist of fiberglass cabinets that include transmitter and receiver cards and the adjustable height detector .
- ◆ This device is exempt from manual regulations and provides a self-diagnostic software that, in case of failure or dirt, allows its operation in a degraded way with a special external signal.

Mechanical structure

- ◆ Fiberglass Cabinets (Tx - Rx Units) with a profile able to prevent wind oscillations.
- ◆ Every cabinet has an optical system with a front infrared filter and a locked back door .
- ◆ Every cabinet is equipped of a removable metallic chassis to support the transmitter and receiver units with the height detector
- ◆ Drilled base for the entry of feeding and connection cables with the other column and host
- ◆ Ground anchorage with fixing bolts to a specific support on the pavement
- ◆ Heating and ventilation system (options) for particular environmental situations.


Power supply

- ◆ Voltage 220 VAC/45-65 Hz
- ◆ Absorbed Power (without heating system) 20 VA
- ◆ Heating System (option) 200 VA

Element sizes

- ◆ Height 205 cm
- ◆ Width 25 cm
- ◆ Depth 26 cm

Technical structure

- ◆ Barrier scanning 10 msec
- ◆ Height detector (RVH) response 2,5 msec
- ◆ Height sensitive zone 155 cm
- ◆ Minimum detectable zone from lane surface 7 - 28 cm
- ◆ Maximum detectable zone from lane surface 162 – 183 cm
- ◆ Height detector from lane surface 7 – 162 cm
- ◆ Distance between transmitter and receiver units (standard) 3 – 5 mt
- ◆ Distance between transmitter and receiver units (optional) 3 – 10 mt
- ◆ Minimum detectable diameter 2,5 cm
- ◆ Operating temperature without heating and ventilation -20°+70°
- ◆ Relative humidity 90%
- ◆ Automatic calibration system included
- ◆ Degraded function included
- ◆ Output with optoisolator (30 VDC 50 mA) or serial line
- ◆ Standard color RAL 9006
- ◆ Compliance with RoHS directive 

Options

- ◆ RVH - Height detector
- ◆ Heating and Ventilation System
- ◆ Tropicalization of electronic cards
- ◆ Installation kit

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